



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 1 086 785 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
17.04.2002 Bulletin 2002/16

(51) Int Cl.7: **B25B 21/00**

(43) Date of publication A2:
28.03.2001 Bulletin 2001/13

(21) Application number: **00123942.5**

(22) Date of filing: **20.01.1999**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE**
Designated Extension States:
AL LT LV MK RO SI

(71) Applicant: **Junkers, John K.**
Saddle River, New Jersey 07458 (US)

(72) Inventor: **Junkers, John K.**
Saddle River, New Jersey 07458 (US)

(30) Priority: **09.03.1998 US 36848**

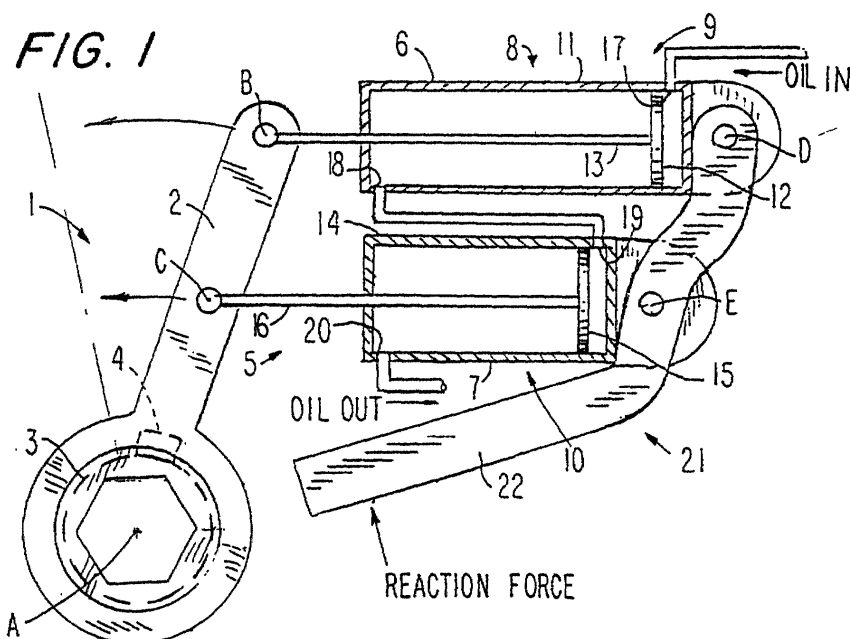
(74) Representative: **Newby, Martin John**
JY & GW Johnson,
Kingsbourne House,
229-231 High Holborn
London WC1V 7DP (GB)

(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
99300407.6 / 0 941 810

(54) **Fluid-operated tool**

(57) A fluid-operated tool has link means (1) provided with an engaging element (3) for engaging and turning a threaded connector about a pivot axis (A), a housing (5), and fluid-operated drive means (8,9). The drive means (8,9) includes cylinder-piston means with cylinder means (11,14) formed in the housing, piston means (12,15) reciprocatingly movable in the cylinder means

(11,14) and piston rod means (13,16) connecting the piston means (12,15) and the link means (1) so that when the drive means (8,9) is actuated by a pressure fluid, the piston rod (13,16) is displaced and turns the link means (1) about the pivot axis (A). The housing (5) is connected to the link means (1) exclusively by the piston rod means (13, 16).



EP 1 086 785 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 00 12 3942

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 3 706 244 A (C.H.WILMETH) 19 December 1972 (1972-12-19)	7	B25B21/00
A	* abstract; figures *	1	
X	US 2 972 918 A (O.C.HUFF ET AL.) 28 February 1961 (1961-02-28)	7	
A	* claims; figures *	1	
X	EP 0 225 695 A (POWER TORK HYDRAULICS, INC.) 16 June 1987 (1987-06-16)	7	
A	* abstract; figures 1,2 *	1	
A	US 2 729 997 A (W.R.DAVIS) 10 January 1956 (1956-01-10) * column 2, line 27 - column 3, line 23; figures 4,6 *	1	<div>TECHNICAL FIELDS SEARCHED (Int.Cl.7)</div> B25B
A	CH 165 226 A (JUCHLI HELEN) 15 November 1933 (1933-11-15) * page 1, right-hand column, line 19 - page 2, left-hand column, line 6; figure 2 *	1	
A	EP 0 130 465 A (P.-H. WAGNER) 9 January 1985 (1985-01-09) * page 12, line 14 - page 13, line 18; figure 7 *	1,7	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 25 February 2002	Examiner Majerus, H
<div>CATEGORY OF CITED DOCUMENTS</div> <div> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document </div>			

EPO FORM 1503 03/82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 12 3942

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

25-02-2002

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 3706244	A	19-12-1972	NONE		
US 2972918	A	28-02-1961	NONE		
EP 225695	A	16-06-1987	US	4669338 A	02-06-1987
			EP	0225695 A1	16-06-1987
			NO	864058 A	13-04-1987
			US	4744271 A	17-05-1988
US 2729997	A	10-01-1956	NONE		
CH 165226	A	15-11-1933	NONE		
EP 130465	A	09-01-1985	DE	3323904 A1	10-01-1985
			AT	27238 T	15-06-1987
			EP	0130465 A1	09-01-1985
			JP	60039076 A	28-02-1985
			ZA	8404757 A	27-02-1985